

AMENDMENTS TO THE CLAIMS

1-18. (Cancelled)

19. (New) A push-button switch member comprising:

a key-top portion for pressing a movable contact point which is disposed against a stationary contact point on a circuit board so as to oppose the stationary contact point; and

a cover base member provided with said key-top portion at a predetermined portion of said key-top portion and adapted to be mounted to the circuit board;

wherein said key-top portion comprises

a display section operable to display a switching function,

a base electrode,

a transparent electrode disposed so as to oppose said base electrode and to contact with said display section, said transparent electrode being continuously and integrally formed in a range including and between a side surface and an upper surface of said key-top portion, and said transparent electrode comprising a transparent conductive polymer which is selected from the group consisting of a derivative of polypyrrole, a derivative of polythiophene and a derivative of polyaniline, and

an area emitter member integrally formed with said display section, said area emitter comprising a light emitting layer which is disposed between said base electrode and said transparent electrode.

20. (New) The push-button switch member according to claim 19, wherein said transparent electrode has a surface resistance of not less than $10\Omega/\square$ and a light transmittance of not more than 90%.

21. (New) The push-button switch member according to claim 19, wherein said transparent

electrode comprises an electroconductive fiber having a diameter of not more than 0.5 μm and an aspect ratio of not less than 20.

22. (New) The push-button switch member according to claim 19, wherein said transparent electrode is colored.

23. (New) The push-button switch member according to claim 19, wherein elongatable conductive members are connected to said base electrode and said transparent electrode, respectively, and said elongatable conductive members having elongating portions to which a tensile force is applied at a molding process are covered with elongatable insulating thin films, respectively.

24. (New) The push-button switch member according to claim 23, wherein said elongatable conductive members connected respectively to said base electrode and said transparent electrode are arranged so as to not overlap each other.

25. (New) The push-button switch member according to claim 23, wherein each of said insulating thin films has a storage modulus, at a molding temperature thereof, which is larger than a storage modulus of said elongatable conductive members connected to said base electrode and said transparent electrode at a molding temperature thereof.

26. (New) The push-button switch member according to claim 23, wherein said base electrode and said elongatable conductive member connected to said base electrode are comprised of a conductive layer containing an organic polymer and a conductive filler, and said filler has a side length of not more than 1/3 of thickness of said elongatable conductive layer.

27. (New) The push-button switch according to claim 26, wherein a conductive layer has said conductive polymer layer.

28. (New) The push-button switch member according to claim 26, wherein said conductive filler is composed of a fiber material having a diameter of not more than 1 μm .
29. (New) The push-button switch member according to claim 23, wherein said base electrode and said elongatable conductive member connected to said base electrode are formed of a conductive polymer.
30. (New) The push-button switch member according to claim 19, wherein said key-top portion includes a key-top body in the shape of a key-top formed to a rear surface of said base electrode, and a push projection is formed to a rear surface of said key-top body for contacting a movable electrode at the movable contact point to a stationary electrode at the stationary contact point on the circuit board.
31. (New) The push-button switch member according to claim 19, wherein said key-top portion has a transparent first resin molded form having a key-top shape to the surface of said transparent electrode through a transparent insulating film, and a second resin molded form formed with a push projection to a rear surface of said base electrode for contacting a movable electrode at the movable contact point to a stationary electrode at the stationary contact point on the circuit board.
32. (New) The push-button switch member according to claim 19, wherein a plurality of switch circuits composed of a plurality of said key-top portions and a plurality of said base electrodes and a plurality of said transparent electrodes corresponding to said plurality of key-top portions, respectively, are integrally formed to said cover base member.
33. (New) A push-button switch member comprising a key-top portion for pressing a movable contact point which is disposed against a stationary contact point on a circuit board so as to oppose the stationary contact point, wherein said key-top portion comprises:

a display section operable to display a switching function,
a base electrode,

a transparent electrode disposed so as to oppose said base electrode and to contact with said display section, said transparent electrode being continuously and integrally formed in a range including and between a side surface and an upper surface of said key-top portion, and said transparent electrode comprising a transparent conductive polymer which is selected from the group consisting of a derivative of polypyrrole, a derivative of polythiophene and a derivative of polyaniline, and

an area emitter member integrally formed with said display section, said area emitter comprising a light emitting layer which is disposed between said base electrode and said transparent electrode.

34. (New) The push-button switch member according to claim 33, wherein said transparent electrode has a surface resistance of not less than $10\Omega/\square$ and a light transmittance of not more than 90%.

35. (New) The push-button switch member according to claim 33, wherein said transparent electrode comprises an electroconductive fiber having a diameter of not more than $0.5\ \mu\text{m}$ and an aspect ratio of not less than 20.

36. (New) The push-button switch member according to claim 33, wherein said transparent electrode is colored.

37. (New) The push-button switch member according to claim 33, wherein elongatable conductive members are connected to said base electrode and said transparent electrode, respectively, and said elongatable conductive members having elongating portions to which a tensile force is applied at a molding process are covered with elongatable insulating thin films, respectively.

38. (New) The push-button switch member according to claim 37, wherein said elongatable conductive members connected respectively to said base electrode and said transparent electrode are arranged so as to not overlap each other.

39. (New) The push-button switch member according to claim 37, wherein each of said insulating thin films has a storage modulus, at a molding temperature thereof, which is larger than a storage modulus of said elongatable conductive members connected to said base electrode and said transparent electrode at a molding temperature thereof.

40. (New) The push-button switch member according to claim 37, wherein said base electrode and said elongatable conductive member connected to said base electrode are comprised of a conductive layer containing an organic polymer and a conductive filler, and said filler has a side length of not more than $1/3$ of thickness of said elongatable conductive layer.

41. (New) The push-button switch according to claim 40, wherein a conductive layer has the conductive polymer layer.

42. (New) The push-button switch member according to claim 40, wherein said conductive filler is composed of a fiber material having a diameter of not more than $1\mu\text{m}$.

43. (New) The push-button switch member according to claim 37, wherein said base electrode and said elongatable conductive member connected to said base electrode are formed of a conductive polymer.

44. (New) The push-button switch member according to claim 33, wherein said key-top portion includes a key-top body in the shape of a key-top formed to a rear surface of said base electrode, and a push projection is formed to a rear surface of said key-top body for contacting a

movable electrode at the movable contact point to a stationary electrode at the stationary contact point on the circuit board.

45. (New) The push-button switch member according to claim 33, wherein said key-top portion has a transparent first resin molded form having a key-top shape to the surface of said transparent electrode through a transparent insulating film, and a second resin molded form formed with a push projection to a rear surface of said base electrode for contacting a movable electrode at the movable contact point to a stationary electrode at the stationary contact point on the circuit board.